R DYNACORD°

Vector

Mixing Consoles

OPERATING AND SERVICE INSTRUCTIONS

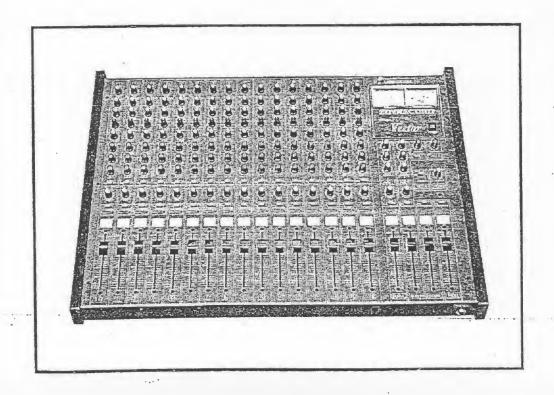


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1 INSTALLATION

1.1 Rack Mounting ,

The Vector 8 mixer may be placed in a standard 19 inch equipment rack. It requires 17.5 inches of vertical space (10 standard EIA vertical rack spaces). For more information on rack-mount installation, refer to Section 4 and Figure 9 of this manual.

1.2 Ventilation

The *Vector* series mixing consoles should not be used in areas where the ambient temperature exceeds 60°C (140°F).

2 SIGNAL CONNECTIONS

2.1 Input Connections

Balanced microphone inputs may be made to the 3-pin XLR-type connector. Balanced line inputs may be made to the 14-inch phone (TRS) connector. For single-ended inputs, strap the low (-) input (pin 3 on XLR or Ring on 14-inch phone) to ground. Otherwise, the electronically balanced input stage will see 6 dB less input signal level than with a balanced input. Refer to Figure 1 for typical input connections.

2.2 Output Connections

The main outputs of the mixing console are electronically servo-balanced. Balanced output connec-

tions may be made to the male 3-pin XLR-type connectors. For single-ended outputs, strap the low (-) output (pin 3 on XLR or Ring on ¼-inch phone) to ground. Otherwise, the electronically servo-balanced output stage will produce 6 dB less output signal level than with a balanced output connection. Unbalanced connections may be made to the other ¼-inch phone (TRS) connectors. Refer to Figure 2 for typical output connections.

2.3 Insert Connections

Signal processing equipment may easily be inserted in the signal path by using the ¼-inch phone (TRS) insert connectors. The external device must have line level unbalanced inputs and outputs. The output signal from the mixing console is on the Tip and the input signal is on the Ring. The Sleeve is ground. Refer to Figure 3 for a typical insert connection.

3 OPERATION

3.1 Input Channel Controls (Refer to Figure 4)

The input channel is the beginning of the signal amplification chain of the mixer. Each input channel will accept one signal source which may be equalized, have effects added and sent to the monitor and main system for the audience to hear. Each input has a low-impedance microphone input (the 3-pin XLR connector) and a high-impedance microphone or line

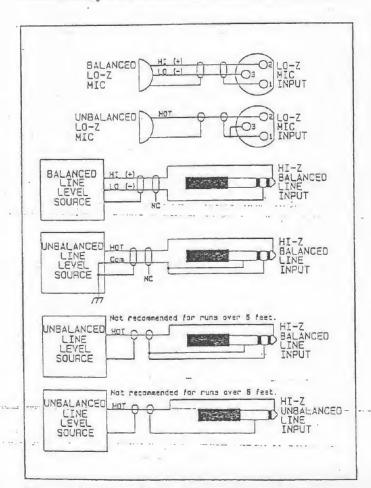


Figure 1: Typical Input Connections

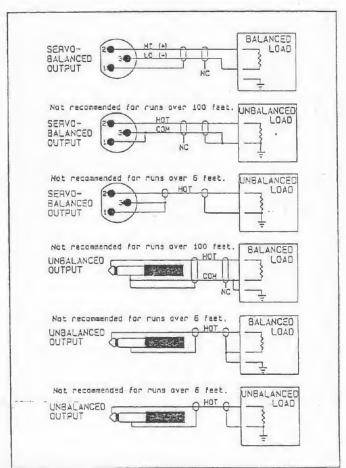


Figure 2: Typical Output Connections

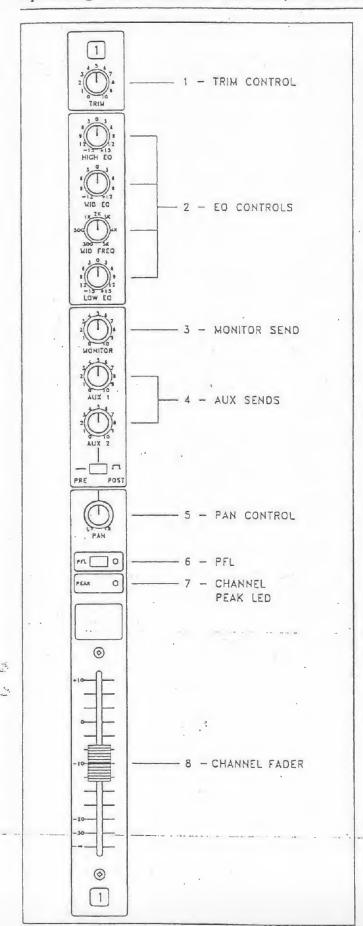


Figure 4: Input Channel Controls

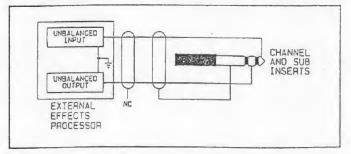


Figure 3: Typical Insert Connection

input (¼-inch phone jack). The line input will accept signals from an instrument, high-impedance microphone, tape/CD player, keyboard or electronic drums or almost any other audio source. Always make sure that the channel fader (see Figure 4) and/or master faders (see Figure 5) are down before plugging or unplugging input sources.

1. TRIM Control: This control adjusts the gain of the input amplifier to accommodate the wide variation in signal strength presented to the mixer by the endless variety of signal sources. The TRIM control allows the amplification of each individual input source to be optimized. Correct setting of the TRIM control results in the best signal-to-noise ratio (no hiss), the greatest dynamic range, and the freedom from overload distortion.

To set the TRIM control correctly, first set the channel fader at minimum and depress the channel PFL switch. Make sure the source (mic, instrument) that is plugged into the channel is used at its nominal performance level. Increase the TRIM level until the level of the PFL meter reaches 0 VU. Gradually bring the channel fader up to the desired listening level. This insures that nominal level is maintained throughout the input channel.

If the level is too low in the TRIM's gain circuit, hiss will occur. If the level is too high in the TRIM circuit, overload distortion will occur. Keeping the channel faders at nominal level with proper setting of the TRIM control will keep the system sounding its best and its quietest.

2. EQ Controls: Equalization can be more simply described as sophisticated tone control. The EQ circuits used in the Vector series have a substantial amount of sound shaping capability.

This wide range can be a bonus when dealing with widely-varying instrument signals, poor acoustics or other problems. The EQ should be used sparingly, however, for the best results. Too liberal use of the EQ can cause phasing problems, add noise, and use up a lot of amplifier power.

2A. HIGH EQ: The high EQ circuit is a shelving type filter at 10 kHz with a ±15 dB range. It controls the treble content of the input signal. Turning the control counterclockwise decreases the amount of treble, clockwise increases it.

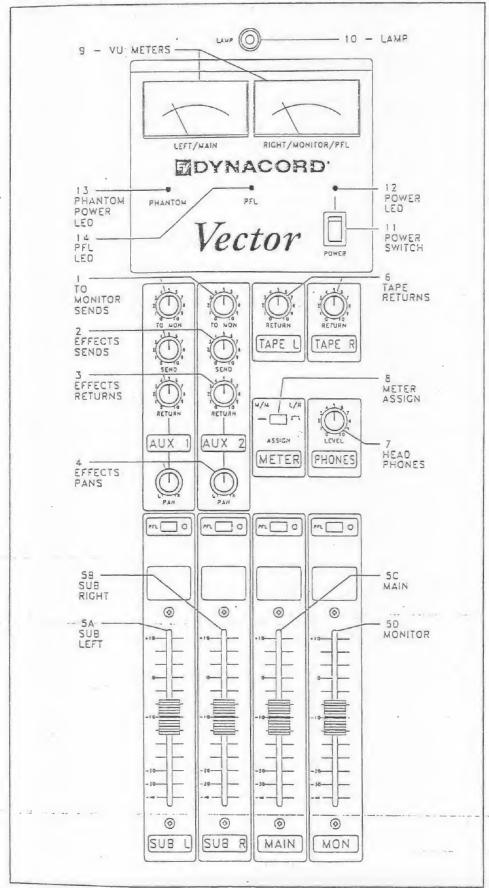


Figure 5: Output Section Controls

- 2B. MID EQ: The mid EQ circuit is a peaking type filter with a ±15 dB range. It controls the midrange content of the input signal. Turning the control counterclockwise decreases the amount of midrange, clockwise increases it.
- 2C.MID Frequency: The mid frequency circuit controls the frequency range from 300 Hz to 5 kHz of the MID EQ control. By varying the FREQUENCY, different tonal perspectives can be created. The sweepable frequency gives much more control flexibility.
- 2D.LOW EQ: The low EQ circuit is a shelving type filter at 100 Hz with a±15 dB range. It controls the bass content of the input signal. Turning the control counterclockwise decreases the amount of bass, clockwise increases it.
- 3. MONITOR Send: The monitor send control sets the level of the input signal in the monitor mix. It is independent of all input channel controls except the TRIM control. It is not affected by the channel EQ controls or slide fader. Thus, it is not affected by changes in the main or house mix.
- 4. AUX Sends: The AUX 1 send control sets the level of that signal in the AUX 1 mix and is post-fader, which means that it is affected by the gain setting of the fader. The AUX 1 send may also be used as a mono send for recording.

The AUX 2 send control sets the level of that input signal in the AUX 2 mix and is switchable PRE or POST fader. In the PRE position, it serves as another MONITOR OUT, and in the POST position, another EFFECTS OUT.

5. PAN Control: Short for "panoramic potentiometer", this control allows the channel's input signal to be placed within the stereo image by assigning more or less of the signal to the left or right subgroup controls. Turning the panpot to the left of center moves the apparent source toward the left channel. Turning the panpot to the right of center moves the apparent source toward the right channel. Centering the control makes the apparent source centered between the channels. If all inputs are panned center, the result is mono.

Some users pan all the instruments to one side and the vocals to the other and use the subgroup controls to balance them.

6. PFL: PFL(pre-fader listen) allows the operator to preview any pre-fader signal individually or in combination through the headphone output. To activate the PFL simply depress the appropriate switches. The status indicator will light indicating which pre-fader signals are being monitored. When the PFL circuit is engaged by depressing a PFL switch, both the right meter and the headphone circuit will monitor the audio level of the selected channel(s).

In the normal position (all PFL switches off), the right meter monitors the METER switched bus, and the headphone circuit monitors the output of the SUB L and SUB R outputs. The audio level of the headphone jack is controlled by the PHONES control.

- 7. Channel PEAK LED: The channel PEAK LED monitors the input channel circuit for clipping or overload (both before and after the EQ section). If it lights, the signal is bordering on distortion. This will be heard in the output as a harsh, blaring sound on volume peaks. This might be caused by excessive boost in the channel equalization controls, or a TRIM control setting that is too high for the input signal. Generally, readjusting the TRIM control will cure this undesired condition.
- 8. Channel Fader: The slide fader controls the output level of the channel as it is fed to the sub-groups. The control should be normally set around the "0" mark (nominal level). At this point, the signal level is high enough to keep noise from creeping in and low enough to insure plenty of headroom and freedom from clipping distortion. If the fader must run wide open to get enough level, turn up the TRIM control judiciously or increase the level setting of the left and right subgroup controls. Conversely, if the fader must be pulled way back to get the right level, the TRIM control or stereo subgroup should be adjusted. Adjust the TRIM control if the PEAK LED lights, otherwise adjust the stereo subgroups. For optimum performance, the channel FADERS should be run close to the "0" mark.
- 3.2 Output Section Controls (Refer to Figure 5.)

- 1. TO MON Send (AUX 1, AUX 2): The TO MON level control determines the amount of externally generated effects signals in the monitor mix. With the use of this control, the performers can hear the added effects in their monitors.
- 2. Effects SEND (AUX 1, AUX 2): The effects SEND control sets the level of the signal appearing at the effects send output jack(s) going to any type of outboard effects device(s) such as a digital reverb, flanger, compressor/limiter, etc. The source of this signal is via the individual AUX 1 and AUX 2 send level controls on each input channel.
- Effects RETURN (AUX 1, AUX 2): The effects RETURN level control determines the amount of externally generated effects signals in the main mix. This signal is mixed into the left and right stereo sub channels via the AUX 1 and AUX 2 PAN control(s).
- 4. PAN Control (AUX 1, AUX 2): The effects PAN control (AUX 1, AUX 2) directs the signal coming from the effects RETURN level control(s) into the left and/or right sub channels. The control works in an identical way to the input channel PAN control
- Master Section Controls: The master section controls affect the subgroup, main, and monitor output levels.

The use of subgroups can be shown by this example: If the input channel PAN controls are set fully clockwise for all the vocals, then the SUB R fader has been assigned as a "vocal submaster". If the SUB R fader is raised or lowered, the vocal level in the mix can be set while preserving the input channel balance set among the vocalists.

- 5A. SUB L (Left Submaster): Controls the volume of the left stereo output channel. It is also used as a subgroup master.
- 5B. SUB R (Right Submaster): Controls the volume of the right stereo output channel. It is also used as a subgroup master.
- 5C.MAIN Master: The MAIN (monaural) output is the summed mix of the left and right stereo outputs. The MAIN master controls the volume of the output.
- 5D.MON (Monitor Master): Controls the volume of the monitor output signal. The monitor output is a mix of the individual channel monitor sends.
- 6. TAPE L and TAPE R: These controls adjust the level of the tape left and tape right returns.
- 7. PHONES (Headphone Level): The PHONES gain control sets the level at the headphone jack (front panel on the Vector 12, 16, and 24; top panel on the Vector 8). Any signal selected by depressing a PFL switch will be monitored through the headphone jack. Without any of the PFL switches

depressed, the headphone circuit monitors the left and right subgroup outputs in stereo.

8. METER Assignment Switch: A push-push switch is provided to allow the user to select the points in the circuit which are monitored by the VU meters. When the switch is depressed, the indication will be the audio level at the MAIN and MONitor outputs. In the other (non-depressed) position, signal level at the SUB Left and SUB Right outputs will be shown.

11:55

- 9. VU Meters: Two "B" scale analog VU meters with integral peak lights are used to indicate signal level at selected points in the circuit (see meter assignment switch and PFL switches). The meter scale indicates a range from -20 dB to +4 dB with 0 VU = +4 dBu, a standard in the industry. The integral peak light, located in the upper right-hand corner of each meter, shows when the output is above the +14 dB level and the headroom is being rapidly exhausted and distortion is imminent. The meters read either left/right stereo, or main/monitor level. If any of the PFL switches are depressed, the right meter will monitor the PFL bus signal. A PFL LED is provided on the meter bridge to acknowledge the condition.
- 10. LAMP Connector: A BNC-type socket is provided at the top of the mixer panel to accommodate a Littelite® gooseneck lamp to allow operation of the board in low-light conditions. These lamps are available in different lengths from many professional sound dealers and attaches without tools. The LAMP connector can accommodate either normal or high intensity lamps.
- 11. POWER Switch: The power switch is used to turn the main ac power on and off.
- 12. POWER Indicator: This LED (green) is illuminated when the main ac power is on.
- PHANTOM Power Indicator: This LED (red) indicates when phantom power is present at the microphone inputs.
- 14. PFL Indicator: This LED (amber) indicates when the PFL circuit is activated and shows that the right meter is reading the PFL bus signal level.

3.3 Rear Panel Input Connectors (Refer to Figure 6.)

The Vector series mixer can accept program material covering a dynamic range of over 100 dB. All of the line inputs can safely accept signal levels up to +20 dBu. (See specifications for details.) All line inputs are made through standard 4-inch phone jacks (except for TAPE inputs). Several of the inputs that directly access the mix buses can be used to stack mixers together without using up an input channel. The stacking group includes the AUX 1, AUX 2, and MONITOR inputs. The AUX return inputs may also be used as stacking inputs. For stereo subgroup stacking, set the AUX 1 PAN control to L, and the AUX 2 PAN control to R and use AUX 1 and 2 RETURNS for left and

right stacking, respectively.

1. Balanced Low-Z Mic Input: A female 3-pin XLR-type connector is used for balanced low-impedance microphones. The MIC INPUT is actively balanced; active balancing allows elimination of the input transformer (along with its limitations) while maintaining the RF and hum rejection of a good transformer-coupled input.

It is important during operation or testing of the mixer that all faders remain fully down whenever the mic input is not *properly* terminated with a microphone or an equivalent 150 ohm source. An open mic input invites the introduction of high noise levels which could produce lower quality sound or an incorrect test measurement.

2. High-Z Line Input: A standard ¼-inch phone jack is used for balanced or unbalanced line level signals. Examples of these signals include most electronic keyboards, drum machines and synthesizers, tape decks, CD players, etc. All input channel controls, including the variable TRIM control, affect the LINE input. Maximum input level before preamp clipping is +24 dBu (12.3 Vrms).

If a sufficient signal level is not possible with the TRIM control at its furthest clockwise position, the input signal must then be treated as a mic level signal and connected to the microphone input. If necessary, use an appropriate balancing transformer or a direct box with the microphone (XLR) input.

- 3. AUX RETURN (AUX 1 and AUX 2): The AUX RETURN jack(s) feed signals to the subgroup buses. The signal is controlled by the RETURN and PAN front panel controls.
- 4. AUX IN (AUX I and AUX 2): The AUX IN jack(s) will put signals directly into the respective AUX bus. Crosstalk and buffering protection are provided by the input circuit and the signal level is controlled by the external source.
- 5. MON IN: The MON IN jack will put signals directly onto the monitor bus. Crosstalk and buffering protection are provided by the input circuit and the signal level is controlled by the external source.
- 6. TAPE RETURN: These RCA jacks allow a tape deck or CD player to be directly connected to the mixer. The input is fed into the left and right subgroups and its level is controlled by the TAPE L and TAPE R controls. These jacks can also be used as other AUX returns.
- 7. INSERT L and R (SUB L and SUB R): A space-saving 3-conductor (stereo) phone jack is used for both output from SUB L and SUB R respectively, and for the return to the mixer's master section from an external processing device. Be sure that the device that is to be patched in has line level unbalanced inputs and outputs. The signal at the insert jack can drive loads of 2000 ohms or greater

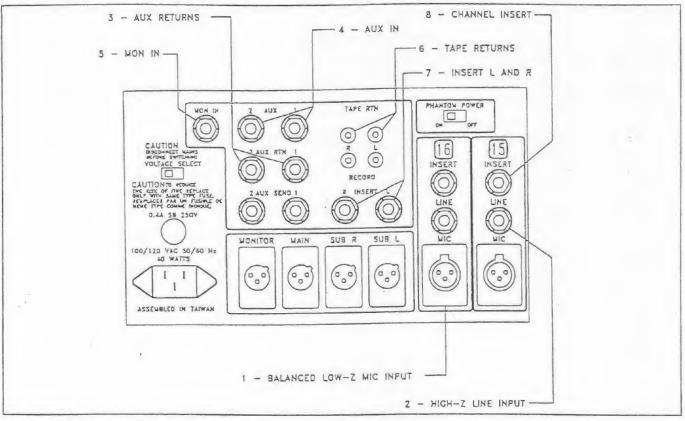


Figure 6: Rear Panel Input Connectors

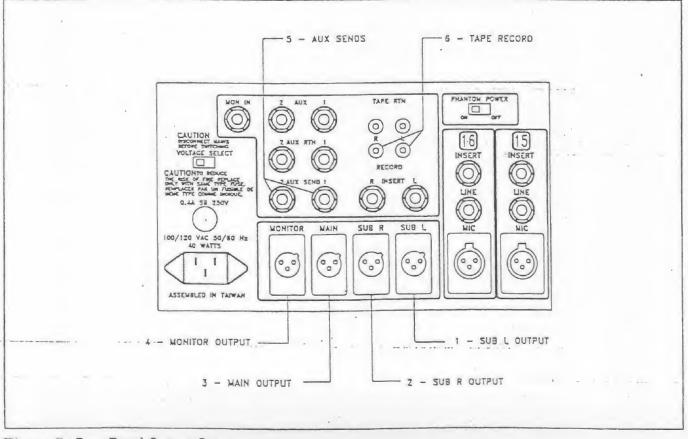


Figure 7: Rear Panel Output Connectors

and the external processing device should have a low output internal impedance (100 ohms or less). Refer to Section 3.3 of this manual and Figure 3 for proper connections.

A nominal input signal is a level of +4 dBu; the maximum level is +20 dBu.

8. Input Channel INSERTs: A space-saving, 3-conductor (stereo) phone jack is used for both output from the input channel and for the return to the input channel from an external processing device. Be sure that the device that is to be patched in has line level unbalanced inputs and outputs. The signal at the insert jack can drive loads of 2000 ohms or greater and the external processing device should have a low output internal impedance (100 ohms or less). Refer to Section 3.3 of this manual and Figure 3 for proper connections.

A nominal input signal is a level of +4 dBu; the maximum level is +20 dBu.

3.4 Rear Panel Output Connections (Refer to Figure 7.)

In the *Vector* series mixers, the SUB L, SUB R, MAIN, and MONITOR outputs are servo-balanced and made through chassis-mount male 3-pin XLR-type connectors to a maximum level of +24 dBu (12.3 Vrms).

All other output connections are line level, unbalanced, and made through standard 4-inch phone jacks (except for RECORD OUT).

- SUB L Output: This left subgroup output is derived by summing all of the points (channels and external) assigned to the left subgroup bus. A PAN control rotated fully counterclockwise to the "L" position will assign that signal only to the left bus.
- 2. SUB R Output: This output is the right subgroup equivalent of the SUB L output.
- 3. MAIN Output: The MAIN output is the summed mix of the left and right subgroup outputs. Since the Vector series are true subgroup mixers, all signals that appear in the main mix must come through the subgroup channels.
- 4. MONITOR Output: The MONITOR output signal is the sum of all the input channel monitor sends and the external monitor input signal.
- 5. AUX SEND (AUX I and AUX 2): The AUX SEND output signal is the sum of all of the input channel AUX sends (PRE or POST fader) plus any signal coming through the AUX IN input.
- 6. TAPE RECORD: These output signals are the sum of all the input channels and effects with their position in the L + R stereo mix. The TAPE RECORD output is via RCA-jacks fixed at -10 dBV for easy interfacing and compatibility with semi-pro and hi-fi tape decks.

3.5 Rear Panel Switches (Refer to Figure 8.)

- 1. PHANTOM POWER Switch: This switch turns the phantom power supply on and off. The phantom power supply provides power for condensertype microphones through the microphone cable. When switched on, it provides 48 volts dc at pins 2 and 3 on all of the microphone input connectors. Pin 1 (the shield conductor) provides the ground return path. This will power standard condenser microphones. When switched on or off, the voltage will slowly ramp up or down; it takes a few seconds to reach full level. This prevents unwanted transients from reaching the microphone inputs. When the switch is engaged, a red LED will light on the meter bridge to confirm its operation.
- VOLTAGE SELECT Switch: The Vector series are capable of operation at 115 or 230 Vac, 50 or 60 Hz. To safely accomplish a voltage change, follow these steps:

1. Turn the mixer off and completely disconnect the ac power cord.

- 2. If the unit is used for 115 Vac (100 120 Vac) operation, be sure a 0.4 amp Slo-Blo® 3AG fuse (0.5 amp fuse in Vector 24) is installed in the fuse holder on the connector panel. If the unit is used for 230 Vac (220 240 Vac) operation, be sure a 0.25 amp Slo-Blo® 5×20 mm (supplied) fuse is installed in the fuse holder.
- Change the chassis-mounted switch on the connector panel to the correct corresponding voltage.
- Plug the power cord in the desired ac line and resume normal operation.

CAUTION: Before attempting to move this switch, the mixer must be turned off and the power cord disconnected.

Slo-Blo® is a registered trademark of Littelfuse®, Inc.

4 MOVEABLE REAR PANEL ON THE VECTOR 8 MIXER

One example of the versatility of the Vector 8 mixer is that it can be either rack-mounted in a standard 19 inch equipment rack or mounted in a tabletop. To accommodate a rack-mount installation, the Vector 8 is supplied with its connector panel placed on its bottom. This prevents the input/output connectors from using up valuable vertical rack space. The connector panel may be moved to the rear of the mixer to accommodate a tabletop installation. Refer to Figure 9 to move the connector panel to the rear. When moving this panel to the rear, care should be taken not to pinch any cables between the two panels.

5-----WRITE-ON LABELS

In order to label each channel without marring the surface of the mixer, removable stick-on labels are available from any office supply outlet. Labels that are recommended are Presaply® Removable Labels by Dennison; part number Den-43-540; dimensions are $\frac{1}{2}$ % × 1".

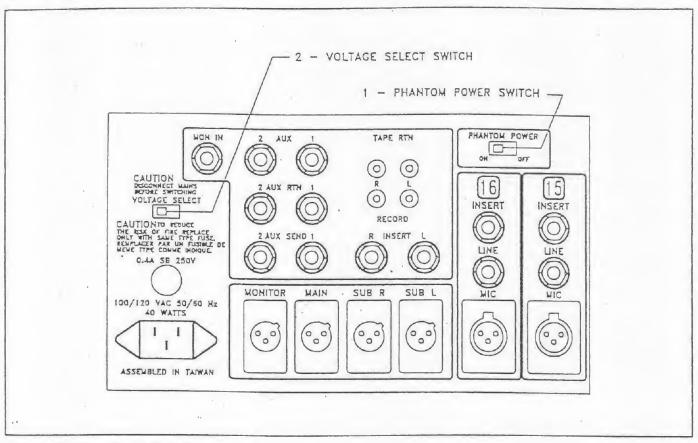


Figure 8: Rear Panel Switches

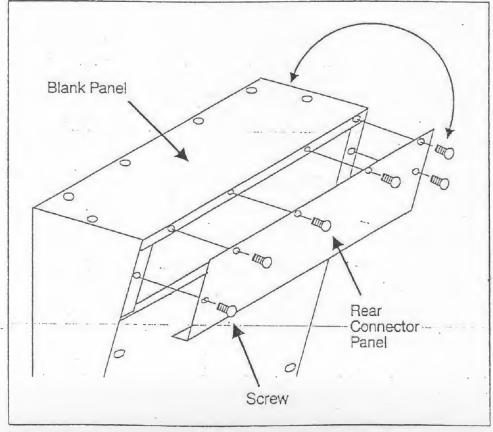


Figure 9: Vector 8 Channel Mixer Moveable Rear Panel

SYSTEM SPECIFICATIONS

Testing Conditions:

120 Vrms, 60 Hz line voltage

maintained.

Frequency Response:

20 Hz to 20 kHz, +1/-3 dB, +4 dBu in 600 ohms.

.77 dBV.

Total Harmonic Distortion:

+4 dBu in 600 ohms, 20 Hz to 20 kHz: < 0.05% +24 dBu in 600 ohms, 20 Hz 20 kHz: <0.10%.

(A-weighted, R = 150 ohms, Channel TRIM minimum)

Equivalent Input Noise: -131 dBV. -87 dBV. Residual Noise: SUB OUT. Master fader nominal, all Input faders minimum: -81 dBV. Master fader and all Input faders nominal: -78 dBV. AUX SEND -77 dBV.

Master fader nominal, all AUX sends minimum: Master fader and all AUX sends nominal:

Maximum Voltage Gain (±3 dB): CH IN to SUB OUT & MON OUT: 78 dB. CH IN to MAIN OUT: 86 dB. CH IN to CH INSERT: 52 dB. 88 dB. CH IN to AUX OUT (post CH fader): AUX RETURN to SUB OUT & MON OUT: 20 dB. AUX IN to AUX OUT: 10 dB MON IN to MON OUT: 10 dB.

Input Channel Equalization: (15 dB maximum boost or cut)

HIGH:

10 kHz (Shelving). MID: 300 Hz to 5 kHz (Peaking). LOW: 100 Hz (Shelving).

Input Channel Gain Control:

Lo-Zinput: Hi-Z input:

40 dB (12 dB to 52 dB). 38 dB (-11 dB to 27 dB). Crosstalk:

Adjacent channel inputs -65 dB typical at 1 kHz. Input to output -60 dB typical at 1 kHz.

VU Meters:

(All meters are calibrated for 0 VU = +4 dBu output.) 2 illuminated meters LEFT/MAIN

RIGHT/MONITOR/PFL.

Clip Indicators:

Input Channel: +16 dBu (4 dB before clipping). VU Meters: +14 dBu (10 dB before clipping).

Lamp Connector.

12 Vac, 375 mA maximum.

Phantom Power: (6.8kohm source impedance). +4S Vdc on electronically balanced microphone inputs

Power Requirements

115v or 230v, 50/60 Hz

(switchable)

Power Consumption

50 watts.

Console Dimensions

Vector 8: 19"×6.63"×17.5" (483×168×445mm). 24"x6.25"x20.75"(610x159x527mm). 29"x6.25"x20.75"(737x159x527mm). Vector 12: Vector 16: Vector 24: 39"x6.25"x20.75" (991x159x527mm).

Console Net Weight

Vector 8: 27 lbs (12.3 kgs). Vector 12: 33 lbs (15 kgs). Vector 16: 40 lbs (18.2 kgs). Vector 24: 53 lbs (24 kgs).

EV/DYNACORD continually strives to improve products and performance. Therefore, these specifications are subject to change without notice.

Input Terminals		Gain	Actual Load	For Use with		Input Level		Connector
		Trim Impedance		Nominal	Sensitivity	Nominal	Max before Cip	in Mixer
	Lo-Z	52 d3	4,4kΩ	50-500Ω mics	-72 dSu (0.20mV)	-52 deu (1.95mV)	-32 dBu (19.5mV)	XLR-3 female
CH Input	H-Z	27 d3	6CKO	800Ω lines	-47 dSu (1,45mV)	~27d8u (34.5mV)	-7 dBu (346mV)	Phone Jack (TRS)
AUX RETURN	(1,2)		202	500Ω lines	-16 d8u (123mV)	나 dBu (1.조기)	-	Phone Jack
	CH (1-7		500	6000 lines	-22 dSu (61,6mV)	-2 d8u (616mV)	+20 dBu (7.75V)	Phone Jack (TRS)
INSEAT IN	SUB (LA)		50	6000 lines	-12 dSu (195mV)	-2 d8u (615mV)		
AUX IN, MON	IN		2010	500Ω fires	-6 dEu (388mV)	→ dSu (1.ZIV)	+25 dBu (15.5V)	Phone Jack
TAPE RTN			SΩ	500Ω lines	-20 dEV (100mV)	-10 d8V (316mV)		RCA Pin Jack

NOTES: (1) Sensitivity is the lowest level that will produce a SUB output of +4 dBu (1.23V), the nominal output level when the unit is set to maximum gain (all faders and level controls are in maximum position).

(2) XLR-3 type connectors are balanced. CH Phone Jacks are balanced (T = +, R = -, S = GNO). Other Phone Jacks and RCA Pin Jacks are unbalanced Insert Phone Jacks are unbalanced (T = OUT, R = IN, S = GNO).

(3) "Yestor 8: 8 Ch, Vedor 12: 12 Ch, Vedor 16: 18 ch, Vedor 24: 24 ch.

	Actual Source	For Use with	Output Level			
Output Terminals	Impedance	Nominal	Nominal	Max. before Clip	Connector in Mixer	
SUB OUT (LR)	150Q	6000 lines	+4 d8u (1,20V)	+24 d9u (12.3V)	XLF-3 male	
TUO NIAM	150Ω	600CL lines	→ dSu (1.23V)	+24 'dSu (12,3V)	SLR-2 male	
MONITOR OUT	1500	600Q lines	+4 d8u (1,22V)	+24 dSu (12.3V)	XLF-3 male	
AUX SENO (1,Z)	1000	10kΩ lines	→ dBu (1.23Y)	+20 dSu (7.75V)	Phone Jack	
CH INSERT (1-7	1000	10kΩ lines	-2 d8u (615mV)	+20 cSu (7.75V)	Phone Jack (TRS)	
(RJ) TREZNI BUZ	75.0	10kΩ lines	-2 d9u (616mV)	+20 c9u (7.75V)	Phone Jack (TRS)	
TAPE RECORD (LR)	750Ω	10kQ lines	-10 dBV (315mV)	-10 dev (1.15V)	RCA Pin Jack	
	1000	8Ω phones	1 mW	25 m₩	Stereo	
PHONES OUT	1000	40Ω phones	Wm E	75 mW	Phones Jack	

NOTES: (1) XLR-3 type connectors are belanced, CH Phone Jacks are balanced (T » +, R » -, S = GND). Other Phone Jacks and RCA Pin Jacks are unbalanced. Insert Phone Jacks are unbalanced (T = CUT, R = IN, S = GND).

* Vector 8: 8 Ch, Vector 12: 12 Ch, Vector 15: 15 ch, Vector 24: 24 ch,

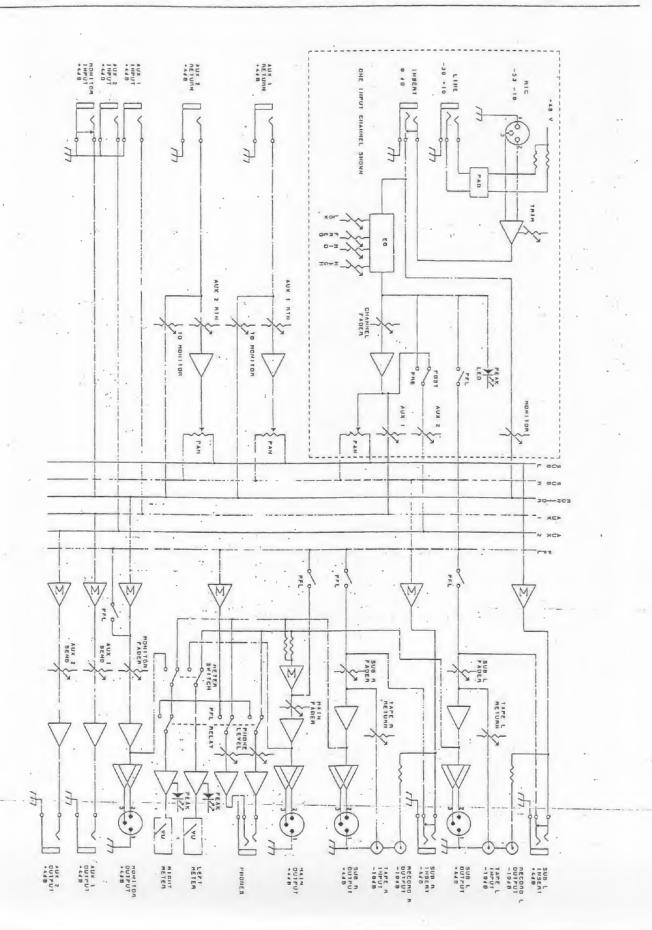


Figure 10: Signal Flow Diagram

Figuré 13: Input Board Schematic :

Figure 14: Sub Channel Board Schematic

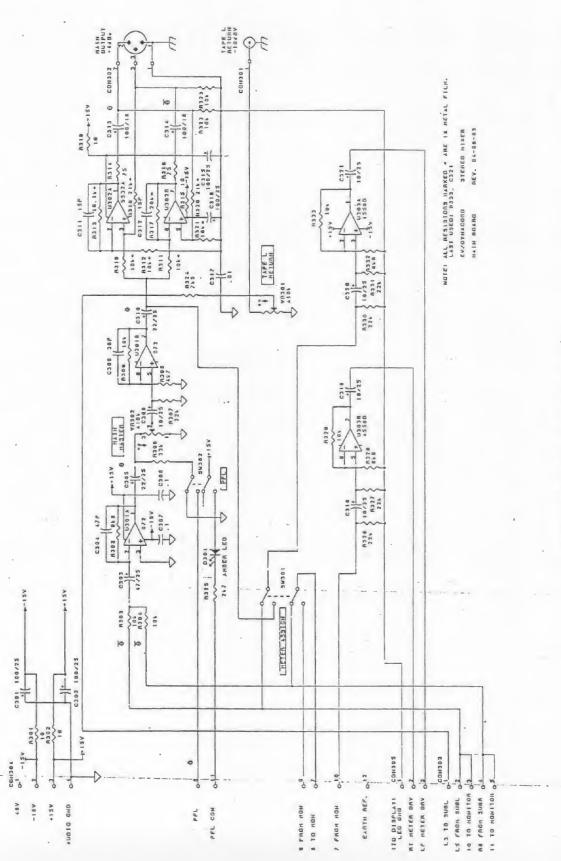


Figure 15: Main Board Schematic

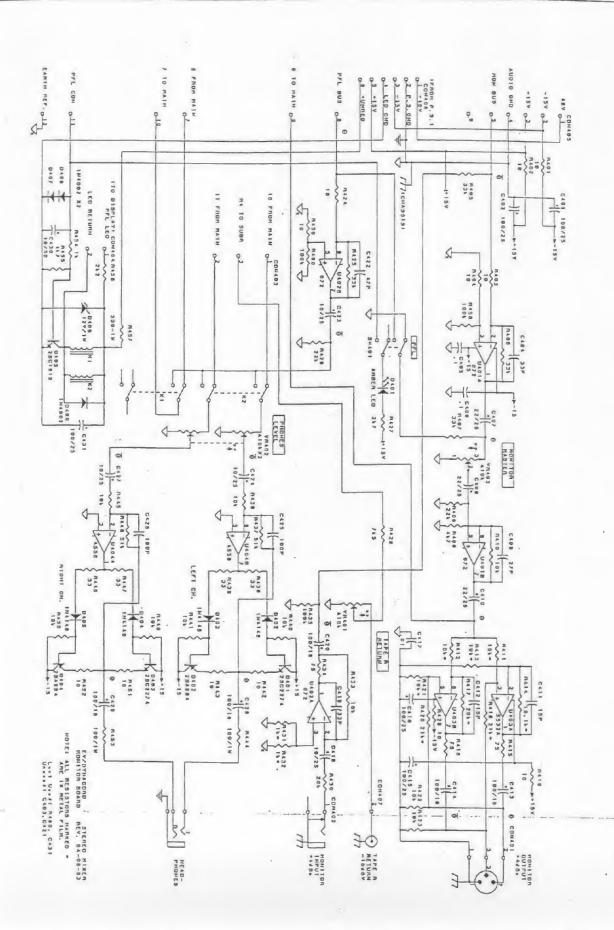
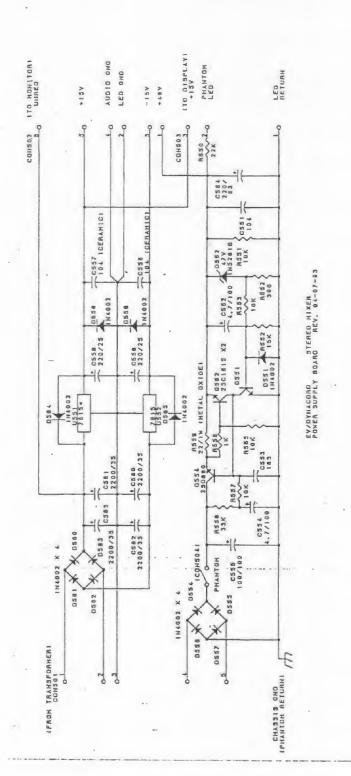


Figure 16: Monitor Board Schematic

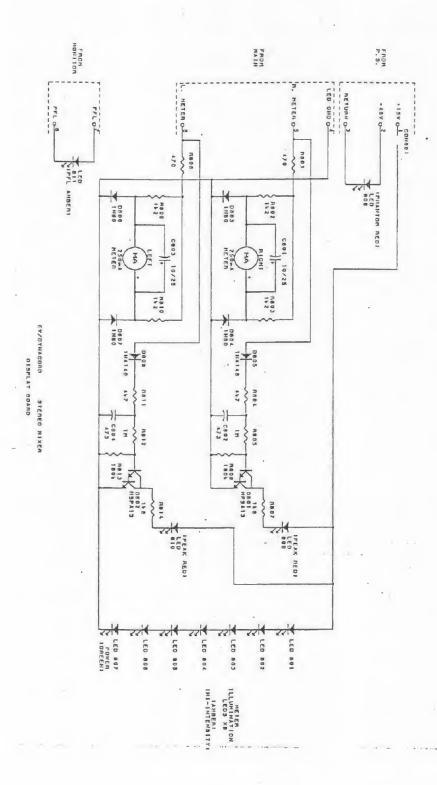


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VALUES ARE INDICATED IN DINES UNLESS DINERWISE SPECIFIED. M-1,000,000] M-1,000,000] SERVICE INFORMATION

EES ARE SHOWN IN MICROFIARDS UNLESS OTHERWISE NOTED. 1882 - DIEGE MILAA, 104 - TJEF WILKE 416. CARRON FILM, 780W UNLESS OTHERWISE SPECIFIED.

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Component Parts List

Main Assembly

Reference Designator	Ordering Number	Name and Description
N/A	A14-01-038890	Plastic Meter Pod (Vector 12, 16, and 24)
N/A	A14-02-029115U	Vinyl Cap, BNC
N/A	A21-01-028398	Conn, XLR Jack, Female
N/A	A21-01-028472	Phonejack, Mono, Grounded (AUX IN, SEND, RTN)
N/A	A21-01-028473	Phonejack, Mono, Shorting, Grounded (MON IN)
N/A	A21-01-028641	Phonejack, Stereo, Grounded (LINE INPUTS)
N/A	A21-01-107505	Phonejack, Stereo (HEADPHONES) (Vector 12, 16, and 24)
N/A	A21-01-036190U	Phonejack, Stereo, Shorted, Grounded (INSERTS)
N/A	A21-02-122141	Conn, XLR Jack, Male
	A21-02-036195U	Conn, IEC, AC Power
N/A	A21-01-036194U	Phonejack RCA Chassis Mount
N/A	A21-02-036198U	Conn, BNC
N/A	A28-03-125230U	Waher, BNC
N/A	A28-02-125229U	Nut, Hex, BNC
N/A	A21-03-036197U	Lug, Solder
N/A		Knob, Slide, Black w/White Stripe
N/A	A24-04-036204U A24-04-038872	Knob, Cap-Black/W. BD-Black
N/A	A24-04-038873	Knob, Push Button Cool Gray 10C
N/A		Knob, Cap-Red/W. BD-Black
N/A	A24-04-038874	Knob, Cap-McGray/W. BD-Black
N/A	A24-04-038875	
N/A	A24-04-038876	Knob, Cap-Blue/W. BD-Black
N/A	A24-04-038877	Knob, Cap-Green/W. BD-Black
N/A	A24-04-038878	Knob, Slide, Black W/Red Stripe
N/A	A42-01-038884	Carton Box EV/DYNACORD Vector 8
N/A	A42-01-038885	Carton Box EV/DYNACORD Vector 12
N/A	A42-01-038886	Carton Box EV/DYNACORD Vector 16 Carton Box EV/DYNACORD Vector 24
N/A	A42-01-038887	
N/A	A47-06-037608U	Pot, Slide 60mm; A 10K X 1 (Vector 8)
N/A	A47-06-029098U	Pot, Slide 100mm; A 10K X1 (Vector 12, 16, and 24)
N/A	A51-02-026775	Swith, Rocker, 250 V SPST
N/A	A51-02-029099U	Swith, Slide; Phantom
N/A	A51-02-036196U	Switch, Line Select 115/230V
N/A	A51-04-036199U	Fuse 250mA 250V SB 5×20 CSAVDE
N/A	A51-04-036193U	Fuse 400mA 250V SB 6x32 UL CSA (Vector 8, 12, and 16)
N/A	A51-04-109448	Fuse 500mA 250V SB 6x32 UL CSA (Vector 24)
N/A	A51-04-026779	Fuse Holder Chassis Mount
N/A	A51-07-026796	Fuse Cap 6×32
N/A	A51-07-026866	Fuse Cap. 5x20
N/A	A56-08-029101U	Transformer, Power (Vector 8, 12, and 16)
N/A	A56-08-038891	Transformer, Power (Vector 24)
N/A	A60-06-124962	Linecord Detachable SJT CSA
N/A	A60-09-038880	Buss Cable CT100F22-12 Vector 8
N/A	A60-09-038881	Buss Cable CT100F22-12 Vector 12
N/A	A60-09-038882	Buss Cable CT100F22-12 Vector 16
N/A	A60-09-038883	Buss Cable CT100F22-12 Vector 24
N/A	A60-14-029121U	Cable, Insert Patching
14147	1100-13-0251210	04016, 1110010 1 400111115

Input Board Assembly (A27-01-038695)

Reference Designator	Ordering Number	Name and Description
C120,123,135,140,141	A15-01-028048	Cap.E.RA. 16ν, 100 μF M
C106	A15-01-037014	Cap.E.RA. 16v, 470 µF M
C118,121,133	A15-01-122935	Cap.E.RA. 25v, 10 µF M
C113,132,142	A15-01-125228U	Cap.E.RA. 25v, 22 µF M
C114,115,116,117	A15-01-026639	Cap.E.RA. 25v, 100 µF M
C101,104,105	A15-01-124504	Cap.E.RA. 63v, 22 µF M
C129	A15-06-028007	Cap. M. 50v, 122K
C126 :	A15-06-124692	Cap. M. 50v, 272K
C124	A15-06-028853	Cap. M. 50v, 682K
C127,128	A15-06-028021	Cap. M. 50v, 333K
C119,122,138,139	A15-02-037136I	Cap.CD 50v, 33 PF K NPO
C111,112,134	A15-02-028578	Cap.CD 50v, 47 PF K NPO
C125		Cap.CD 50v, 68 PF K NPO 6.35
C123 C107,108,130	A15-02-027454	Cap.CD 100v, 470 PF K 6.35
	A15-02-100035	
C109,110	A15-02-028693	Cap.CD 50v, 104 M Y5P 6.35
C102,103	A15-02-037138I	Cap.CD 50v, 102 M Y5P 6.35
VR101	A47-06-029097U	VR. 16 mm C 10K X 1K20
VR102,103,105 VR104	A47-06-027344	VR. 16 mm B 50K X 1K20 CC
	A47-06-029093U	VR. 16 mm C100K X 2K20
VR106,107,108	A47-06-029096U	VR. 16 mm A 10K X 1K20
VR109	A47-06-038870	VR. 16 mm B 20K X 2K20 CC
R113,114	A47-03-124672	Res MF .25w, 1%, 4.75K.ohm
R115,116	A47-03-109437	Res MF .25w, 1%, 10.0K ohm
R126,127,133,134,157,158,159,160	A47-03-121532	Res MF .25w, 1%, 1.00K ohm
R110,111	A47-03-124957	Res MF .25w, 1%, 2.21K ohm
R108,109	A47-03-124678	Res MF .25w, 1%, 3.01K ohm
R104,105	A47-03-027374	Res MF .25w, 1%, 6.81K ohm
R119,120,121,122	A47-01-102030	Res CF .25w, 5%, 10 ohm
R102,103 -	A47-01-028828	Res CF .25w, 5%, 15 ohm
R112	A47-01-102040	Res CF .25w, 5%, 27 ohm
R101,117,176	A47-01-102054	Res CF .25w, 5%, 100 chm
R149,150,175	A47-01-102086	Res CF .25w, 5%, 2.2K ohm
R170	A47-01-102088	Res CF .25w, 5%, 2.7K ohm
R144,145,147	A47-01-102094	Res CF .25w, 5%, 4.7K ohm
R139,140,173	A47-01-102098	Res CF .25w, 5%, 6.8K ohm
R124,125,131,132,141,143,148,151, 152,155,156,165,166,167,168,169	A47-01-102102	Res CF .25w, 5%, 10K ohm
R174	A47-01-102106	Res CF .25w, 5%, 15K ohm
R137,138	A47-01-102109	Res CF .25w, 5%, 20K ohm
R118,146	A47-01-102110	Res CF .25w, 5%, 22K ohm
R106,107	A47-01-102113	Res CF .25w, 5%, 30K ohm
R142,171	A47-01-102114	Res CF .25w, 5%, 33K ohm
R172	A47-01-102122	Res CF .25w, 5%, 62K ohm
2101,102	A48-03-028829	TR, LN PNP 2SA991,2SA970BL
2103,104	A48-03-026624	TR, GP NPN 2SC1815Y
J101,102,103,104	A17-01-124688	IC, OPAMP, TL072CP TI
D101,102,103,104,105,106,107	A48-01-122601	Diode, SW, 1N4148
D101,102,103,104,103,106,107	A39-01-026843	LED, 3MM, Red RT3-234ADS
D109		
	A39-01-036189U	LED, 3MM, Yellow RT3-334ADS
SW101,102	A51-02-029100U	SW, PB.H. DPDT
N/A	A14-08-038916	Bracket, VR

Sub Board Assembly (A27-01-038694)

Reference Designator

C218,225,228,234

C201,202,213,214

C219,233

C209,235

C208

C207,210,211,212,223,224,227, 230,236

C217,232 C206,221,222,226,229

C220 C203,204 C215,216 VR201,202,203

VR204 R213,214,215,223

R216

R220 R218,224

R236,237,238,239,250,251,260,261 R201,202,203,204,219,222,266,267

R206,207,217,221,242,243,253,263 R272

R209 R210 R230,231

R257 R270

R205,208,225,226,229,234,235,240, 241,246,247,252,255,262

R211 R228 R249,259 R227,269,273 R256,265,268 R212,271 R264,274,275 U202,204,206 U201,203,205 D201

SW201

N/A

Ordering Number

A15-01-028048 A15-01-122935 A15-01-125228U A15-01-124341 A15-01-026639 A15-02-125223U A15-02-037203I A15-02-037136I A15-02-100307 A15-02-028693

A15-02-029032 A47-06-029096U A47-06-038870 A47-03-109437 A47-03-124617

A47-03-109434 A47-03-027369 A47-03-121532 A47-01-102030 A47-01-102051

A47-01-102054 A47-01-102082 A47-01-026841 A47-01-102086

A47-01-102088 A47-01-027462 A47-01-102102

A47-01-102106 A47-01-102108 A47-01-102109 A47-01-102110

A47-01-102114 A47-01-102119 A47-01-102127

A17-01-124688 A17-01-122832 A39-01-036189U A51-02-029100U

A14-08-038916

Name and Description

Cap.E.RA. 25v, 10 µF M Cap.E.RA. 25v, 22 µF M Cap.E.RA. 25v, 47 µF M Cap.E.RA. 25v, 100 µF M Cap.CD 50v, 22 PF K NPO

Cap.E.RA. 16v, 100 µF M

Cap.CD 50v, 27 PF K NPO Cap.CD 50v, 33 PF K NPO

Cap.CD 100v, 103 M Y5P 6.35 Cap.CD 50v, 104 M Y5P 6.35 Cap.CD 50v, 15 PF K NPO VR. 16 mm A 10K X 1K20

VR. 16 mm B 20K X 2K20 CC Res MF .25w, 1%, 10.0K ohm Res MF .25w, 1%, 19.1K ohm

Res MF .25w, 1%, 20.0K ohm Res MF .25w, 1%, 21.0K ohm Res MF .25w, 1%, 1.0K ohm Res CF .25w, 5%, 10 ohm

Res CF .25w, 5%, 75 ohm Res. CF .25w, 5%, 100 ohm Res CF .25w, 5%, 1.5K ohm

Res CF .25w, 5%, 1.6K ohm Res CF .25w, 5%, 2.2K ohm

Res CF .25w, 5%, 2.7K ohm Res CF .25w, 5%, 9.1K chm

Res CF .25w, 5%, 10K chm

Res CF .25w, 5%, 15K ohm Res CF .25w, 5%, 18K ohm

Res CF .25w, 5%, 20K chm Res CF .25w, 5%, 22K chm

Res CF .25w, 5%, 33K ohm Res CF .25w, 5%, 47K ohm

Res CF .25w, 5%, 100K ohm IC, OPAMP, TL072CP TI IC, OPAMP, NE5532AN SIG

LED, 3mm, Yellow RT3-334ADS

SW, PB.H. DPDT Bracket, VR

Main Board Assembly (A27-01-038693)

Reference Designator

D301

SW301,302

C313,314 C306.318,319,320,321 C305,310 C303 C301,302,315,316 C304 C317 C307,308 C311,312 C309 VR301 R310,311,312,321 R313 R317 R316,320 R301,302,315,319 R314,318 R325 R308 R305,328,332 R324 R303,304,309,322,323,329,333 R307,326,327,330,331 R306 U303 U301 U302

Ordering Number

A15-01-028048 A15-01-122935 A15-01-125228U A15-01-124341 A15-01-026639 A15-02-028578 A15-02-100307 A15-02-028693 A15-02-029032 A15-02-125222U A47-06-029096U A47-03-109437 A47-03-124617 A47-03-109434 A47-03-027369 A47-01-102030 A47-01-102051 A47-01-102088 A47-01-102094 A47-01-102098 A47-01-102099 A47-01-102102 A47-01-102110 A47-01-102114 A17-01-027463 A17-01-124688 A17-01-122832 A39-01-036189U A51-02-029100U

Name and Description

Cap.E.RA. 16v, 100 uF M Cap.E.RA. 25v, 10 µF M Cap.E.RA. 25v, 22 µF M Cap.E.RA. 25v, 47 µF M Cap.E.RA. 25v, 100 µF M Cap.CD 50v, 47 PF K NPO Cap.CD 100v, 103 M Y5P 6.35 Cap.CD 50v, 104 M Y5P 6.35 Cap.CD 50v, 15 PF K NPO Cap.CD 50v, 30 PF K NPO VR. 16 mm A 10K X 1K20 Res MF .25w, 1%, 10.0K ohm Res MF .25w, 1%, 19.1K ohm Res MF .25w, 1%, 20.0K ohm Res MF .25w, 1%, 21.0K chm Res CF .25w, 5%, 10 ohm Res CF .25w, 5%, 75 ohm Res CF .25w, 5%, 2.7K ohm Res CF .25w, 5%, 4.7K ohm Res CF .25w, 5%, 6.8K ohm Res CF .25w, 5%, 7.5K ohm Res CF .25w, 5%, 10K ohm Res CF .25w, 5%, 22K ohm Res CF .25w, 5%, 33K ohm IC, OPAMP, NJM4558DD JRC IC, OPAMP, TL072CP TI IC, OPAMP, NE5532AN SIG LED, 3mm, Yellow RT3-334ADS SW, PB.H. DPDT

Monitor Board Assembly (A27-01-038879 on Vector 8) (A27-01-038696 on Vector 12, 16, and 24)

Reference Designator

Ordering Number

A15-01-028048

Name and Description

C413,414,420,426,429,431 C418,423,424,427 C407,408,410 C401,402,415,416 C430 C409 C404,419 C422 C425,428 C417 C405,406 C411,412 R444,453 R457 VR402 VR401 R411,412,413,421 R414 R417 R416,420 R431,432 R401,402,403,404,419,424,429,442, 443,451,452,459 R438,439,447,448 R415,418,434 R456 R427 R409,455 R428 R410,422,423,433,436,440,441,445, 449,450 R430 R408,426 R405,406,407,425 R437,446 R435,458,460 Q402,404 Q401,403 Q405 U404 U401,402 U403 D406,407,409 D402,403,404,405 D401 D408 SW401 K1,K2 PHJK		
C407,408,410 C401,402,415,416 C430 C409 C404,419 C422 C425,428 C417 C405,406 C411,412 R444,453 R457 VR402 VR401 R411,412,413,421 R414 R417 R416,420 R431,432 R401,402,403,404,419,424,429,442,43,451,452,459 R438,439,447,448 R415,418,434 R456 R427 R409,455 R428 R410,422,423,433,436,440,441,445,49,450 R430 R408,426 R405,406,407,425 R437,446 R435,458,460 Q402,404 Q401,403 Q405 U404 U401,402 U403 D406,407,409 D402,403,404,405 D401 D408 SW401 K1,K2	-	2413,414,420,426,429,431
C407,408,410 C401,402,415,416 C430 C409 C404,419 C422 C425,428 C417 C405,406 C411,412 R444,453 R457 VR402 VR401 R411,412,413,421 R414 R417 R416,420 R431,432 R401,402,403,404,419,424,429,442,43,451,452,459 R438,439,447,448 R415,418,434 R456 R427 R409,455 R428 R410,422,423,433,436,440,441,445,49,450 R430 R408,426 R405,406,407,425 R437,446 R435,458,460 Q402,404 Q401,403 Q405 U404 U401,402 U403 D406,407,409 D402,403,404,405 D401 D408 SW401 K1,K2	(2418.423,424,427
C401,402,415,416 C430 C409 C404,419 C422 C425,428 C417 C405,406 C411,412 R444,453 R457 VR402 VR401 R411,412,413,421 R414 R417 R416,420 R431,432 R401,402,403,404,419,424,429,442, 443,451,452,459 R438,439,447,448 R415,418,434 R456 R427 R409,455 R428 R410,422,423,433,436,440,441,445, 449,450 R430 R408,426 R405,406,407,425 R437,446 R435,458,460 Q402,404 Q401,403 Q405 U404 U401,402 U403 D406,407,409 D402,403,404,405 D401 D408 SW401 K1,K2		
C430 C409 C404,419 C422 C425,428 C417 C405,406 C411,412 R444,453 R457 VR402 VR401 R411,412,413,421 R414 R417 R416,420 R431,432 R401,402,403,404,419,424,429,442, 443,451,452,459 R438,439,447,448 R415,418,434 R454 R456 R427 R409,455 R428 R410,422,423,433,436,440,441,445, 449,450 R430 R408,426 R405,406,407,425 R437,446 R435,458,460 Q402,404 Q401,403 Q405 U404 U401,402 U403 D406,407,409 D402,403,404,405 D401 D408 SW401 K1,K2		
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C425,428 C417 C405,406 C411,412 R444,453 R457 VR402 VR401 R411,412,413,421 R414 R417 R416,420 R431,432 R401,402,403,404,419,424,429,442, 443,451,452,459 R438,439,447,448 R415,418,434 R456 R427 R409,455 R428 R410,422,423,433,436,440,441,445, 449,450 R430 R408,426 R405,406,407,425 R437,446 R435,458,460 Q402,404 Q401,403 Q405 U404 U401,402 U403 D406,407,409 D402,403,404,405 D401 D408 SW401 K1,K2		
C417 C405,406 C411,412 R444,453 R457 VR402 VR401 R411,412,413,421. R414 R417 R416,420 R431,432 R401,402,403,404,419,424,429,442, 443,451,452,459 R438,439,447,448 R415,418,434 R456 R427 R409,455 R428 R410,422,423,433,436,440,441,445, 449,450 R430 R408,426 R405,406,407,425 R437,446 R435,458,460 Q402,404 Q401,403 Q405 U404 U401,402 U403 D406,407,409 D402,403,404,405 D401 D408 SW401 K1,K2		
C405,406 C411,412 R444,453 R457 VR402 VR401 R411,412,413,421 R414 R417 R416,420 R431,432 R401,402,403,404,419,424,429,442, 443,451,452,459 R438,439,447,448 R415,418,434 R456 R427 R409,455 R428 R410,422,423,433,436,440,441,445, 449,450 R430 R408,426 R405,406,407,425 R437,446 R435,458,460 Q402,404 Q401,403 Q405 U404 U401,402 U403 D406,407,409 D402,403,404,405 D401 D408 SW401 K1,K2		
C411,412 R444,453 R457 VR402 VR401 R411,412,413,421 R414 R417 R416,420 R431,432 R401,402,403,404,419,424,429,442,		
R444,453 R457 VR402 VR401 R411,412,413,421 R414 R417 R416,420 R431,432 R401,402,403,404,419,424,429,442,		
R457 VR402 VR401 R411,412,413,421 R414 R417 R416,420 R431,432 R401,402,403,404,419,424,429,442,		
VR402 VR401 R411,412,413,421 R414 R417 R416,420 R431,432 R401,402,403,404,419,424,429,442, 443,451,452,459 R438,439,447,448 R415,418,434 R456 R427 R409,455 R428 R410,422,423,433,436,440,441,445, 449,450 R430 R408,426 R405,406,407,425 R437,446 R435,458,460 Q402,404 Q401,403 Q405 U404 U401,402 U403 D406,407,409 D402,403,404,405 D401 D408 SW401 K1,K2		
VR401 R411,412,413,421 R414 R417 R416,420 R431,432 R401,402,403,404,419,424,429,442,		
R411,412,413,421 R414 R417 R416,420 R431,432 R401,402,403,404,419,424,429,442, 443,451,452,459 R438,439,447,448 R415,418,434 R456 R427 R409,455 R428 R410,422,423,433,436,440,441,445, 449,450 R408,426 R405,406,407,425 R437,446 R435,458,460 Q402,404 Q401,403 Q405 U404 U401,402 U403 D406,407,409 D402,403,404,405 D401 D408 SW401 K1,K2		
R414 R417 R416,420 R431,432 R401,402,403,404,419,424,429,442,		
R417 R416,420 R431,432 R401,402,403,404,419,424,429,442,		
R416,420 R431,432 R401,402,403,404,419,424,429,442,		
R431,432 R401,402,403,404,419,424,429,442,		
R401,402,403,404,419,424,429,442, 443,451,452,459 R438,439,447,448 R415,418,434 R454 R456 R427 R409,455 R428 R410,422,423,433,436,440,441,445, 449,450 R430 R408,426 R405,406,407,425 R437,446 R435,458,460 Q402,404 Q401,403 Q405 U404 U401,402 U403 D406,407,409 D402,403,404,405 D401 D408 SW401 K1,K2		
443,451,452,459 R438,439,447,448 R415,418,434 R454 R456 R427 R409,455 R428 R410,422,423,433,436,440,441,445,		
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R415,418,434 R454 R456 R427 R409,455 R428 R410,422,423,433,436,440,441,445,		
R454 R456 R427 R409,455 R428 R410,422,423,433,436,440,441,445,		
R456 R427 R409,455 R428 R410,422,423,433,436,440,441,445, 449,450 R430 R408,426 R405,406,407,425 R437,446 R435,458,460 Q402,404 Q401,403 Q405 U404 U401,402 U403 D406,407,409 D402,403,404,405 D401 D408 SW401 K1,K2		
R427 R409,455 R428 R410,422,423,433,436,440,441,445, 449,450 R430 R408,426 R405,406,407,425 R437,446 R435,458,460 Q402,404 Q401,403 Q405 U404 U401,402 U403 D406,407,409 D402,403,404,405 D401 D408 SW401 K1,K2		
R409,455 R428 R410,422,423,433,436,440,441,445, 449,450 R430 R408,426 R405,406,407,425 R437,446 R435,458,460 Q402,404 Q401,403 Q405 U404 U401,402 U403 D406,407,409 D402,403,404,405 D401 D408 SW401 K1,K2		
R428 R410,422,423,433,436,440,441,445,		
R410,422,423,433,436,440,441,445,		
449,450 R430 R408,426 R405,406,407,425 R437,446 R435,458,460 Q402,404 Q401,403 Q405 U404 U401,402 U403 D406,407,409 D402,403,404,405 D401 D408 SW401 K1,K2		
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R408,426 R405,406,407,425 R437,446 R435,458,460 Q402,404 Q401,403 Q405 U404 U401,402 U403 D406,407,409 D402,403,404,405 D401 D408 SW401 K1,K2		449,450
R405,406,407,425 R437,446 R435,458,460 Q402,404 Q401,403 Q405 U404 U401,402 U403 D406,407,409 D402,403,404,405 D401 D408 SW401 K1,K2		
R437,446 R435,458,460 Q402,404 Q401,403 Q405 U404 U401,402 U403 D406,407,409 D402,403,404,405 D401 D408 SW401 K1,K2		
R435,458,460 Q402,404 Q401,403 Q405 U404 U401,402 U403 D406,407,409 D402,403,404,405 D401 D408 SW401 K1,K2		
Q402,404 Q401,403 Q405 U404 U401,402 U403 D406,407,409 D402,403,404,405 D401 D408 SW401 K1,K2	1	2437,446
Q401,403 Q405 U404 U401,402 U403 D406,407,409 D402,403,404,405 D401 D408 SW401 K1,K2	1	2435,458,460
Q405 U404 U401,402 U403 D406,407,409 D402,403,404,405 D401 D408 SW401 K1,K2	-	2402,404
U404 U401,402 U403 D406,407,409 D402,403,404,405 D401 D408 SW401 K1,K2	(2401,403
U401,402 U403 D406,407,409 D402,403,404,405 D401 D408 SW401 K1,K2	(2405
U403 D406,407,409 D402,403,404,405 D401 D408 SW401 K1,K2	1	J404
D406,407,409 D402,403,404,405 D401 D408 SW401 K1,K2		J401,402
D402,403,404,405 D401 D408 SW401 K1,K2		
D402,403,404,405 D401 D408 SW401 K1,K2	1	0406,407,409
D401 D408 SW401 K1,K2		
D408 SW401 K1,K2		
SW401 K1,K2		
K1,K2		

A15-01-020040	
A15-01-122935	
A15-01-125228U	
A15-01-026639	
A15-01-124502	
A15-02-037203I	
A15-02-037136I	
A15-02-028578	
A15-02-027455	
A15-02-100307	
A15-02-028693	
A15-02-029032	
A47-02-125221U	
A47-02-125220U	٠
A47-06-125216U	
A47-06-029096U	
A47-03-109437	
A47-03-124617	
A47-03-109434	
A47-03-027369	
A47-03-121532	
A47-01-102030	
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A47-01-102042	
A47-01-102051	
A47-01-102078	
A47-01-102086	
A47-01-102088	
A47-01-102094	
A47-01-102099	
A47-01-102102	
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A47-01-102109	
A47-01-102110	
A47-01-102114	
A47-01-102120	
A47-01-102127	
A48-03-125219U	
A48-03-125218U	
A48-03-026624	
A17-01-027463	
A17-01-124688	
A17-01-122832	
A48-01-037276I	
A48-01-122601	
A39-01-036189U	
A48-01-125217U	
A51-02-029100U	
A45-01-036187U	
A21-01-038917	

Cap.E.RA. 16v, 100 µF M
Cap.E.RA. 25v, 10 µF M
Cap.E.RA. 25v, 22 µF M
Cap.E.RA. 25v, 100 µF M
Cap.E.RA. 50v, 10 µF M
Cap.CD 50v, 27 PF K NPO
Cap.CD 50v, 33 PF K NPO
Cap.CD 50v, 47 PF K NPO
Cap.CD 50v, 100 PF K NPO 6.35
Cap.CD 100v, 103 M Y5P 6.35
Cap.CD 50v, 104 M Y5P 6.35
Cap.CD 50v, 15 PF K NPO
Res MO 1w, 5%, 100 ohm
The state of the s
Res MO 1w, 5%, 330 ohm VR. 16 mm A 10K X 2K20
VR. 16 mm A 10K X 1K20
Res MF .25w, 1%, 10.0K ohm
Res MF .25w, 1%, 19.1K ohm
Res MF .25w, 1%, 20.0K ohm
Res MF .25w, 1%, 21.0K ohm
Res MF .25w, 1%, 1.00K ohm
Res CF .25w, 5%, 10 ohm
the state of the s
Res CF .25w, 5%, 33 ohm
Res CF .25w, 5%, 75 ohm
Res CF .25w, 5%, 1.0K ohm

Res CF .25w, 5%, 7.5K ohm Res CF .25w, 5%, 10K ohm Res CF .25w, 5%, 20K chm Res CF .25w, 5%, 22K ohm Res CF .25w, 5%, 33K ohm Res CF .25w, 5%, 51K ohm Res CF .25w, 5%, 100K ohm TR, AF PNP 2SA984 TR, AF NPN 2SC2274 TR, GP NPN 2SC1815Y IC, OPAMP, NJM4558DD JRC IC, OPAMP, TL072CP TI IC, OPAMP, NE5532AN SIG Diode, REC. 1N4002 Diode, SW 1N4148 LED, 3mm, Yellow RT3-334ADS Diode, ZD 1/2W 12V 1N5252B SW, PB.H. DPDT Relay, TAKAMISAWA-RY-12W

Phonejack-PL55 Stereo (A27-01-038879 only)

Res CF .25w, 5%, 2.2K ohm Res CF .25w, 5%, 2.7K ohm Res CF .25w, 5%, 4.7K ohm Display Board Assembly (A27-01-038993 on Vector 8) (A27-01-037299U on Vector 12, 16, and 24)

Reference Designator

LED608 LED607 LED611 LED601,602,603,604,605,606 LED609,610 C601,603 C602,604 R601,608 R602,603,609,610 R607,614 R604,611 R606,613 R605,612 Q601,602 D603,604,606,607 D605,608 N/A

Ordering Number

A39-01-036177U
A39-01-036178U
A39-01-036180U
A39-01-036181U
A39-01-036179U
A15-01-122935
A15-06-027367
A47-01-102070 .
A47-01-102080
A47-01-102084
A47-01-102094
A47-01-109298
A47-01-108491
A48-03-125224U
A48-01-125214U
A48-01-122601
A29-01-037292U

Name and Description

LED, 5mm, Red RT5-237HR LED, 5mm, Green RT5-537YG LED, 5mm, Yellow RT5-437AD LED, 5mm, Yel-HI RT5-437AT-T LED, 3mm, Red RT-3517PR Cap.E.RA. 25v, 10UF M Cap. M. 50v, 473K Res CF .25w, 5%, 470 ohm Res CF .25w, 5%, 1.2K ohm Res CF .25w, 5%, 1.8K ohm Res CF .25w, 5%, 4.7K ohm Res CF .25w, 5%, 180K ohm Res CF .25w, 5%, 1.0M ohm TR, DN NPN MPSA13 Diode, SG 1N60 Diode, SW 1N4148 Meter VU, 2.5"

Power Supply Board Assembly (A27-01-038928)

C558,559
C560,561,562,563
C564
C552,554
C555
C553
C551
C556,557
R559
R552
R556
R551,553,555,557
R554 -
R550
R558
Q551,552
Q554
D553,554,555,556,557,558,559,560,
561,562,563,564,565
D551
U551

A15-01-029111U
A15-01-038889
A15-01-038945
A15-01-038944
A15-01-029112U
A15-06-028019
A15-06-037215
A15-02-028693
A47-02-125215U
A47-01-102068
A47-01-102078
A47-01-102102
A47-01-102106
A47-01-102110
A47-01-102114 -
A48-03-026624
A48-03-038399
A48-01-037276I

A48-01-028581

A17-01-038871

A17-01-121659

Cap.E.RA. 25v, 220UF M Cap.E.RA. 35v, 2200UF M Cap.E.RA. 63v, 220UF M Cap.E.RA. 100v, 4.7UF M Cap.E.RA. 100v, 100UF M Cap. M. 100v, 183J Cap. M. 100v, 104J Cap.CD 50v, 104 M Y5P 6.35 Res MO 1w, 5%, 22 ohm Res CF .25w, 5%, 390 ohm Res CF .25w, 5%, 1.0K chm Res CF .25w, 5%, 10K ohm Res CF .25w, 5%, 15K ohm Res CF .25w, 5%, 22K ohm Res CF .25w, 5%, 33K ohm TR, GP NPN 2SC1815Y TR, PS, NPN 2SD880 Diode, REC. 1N4002

Diode, ZD 1/2W 47V 1N5261B IC, REG. LM340T-15 NS IC, REG. LM7915CT NS

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